

"Clean Version of the Amended SPECIFICATION," as required by 37 CFR §1.121(b)(ii); and 2.) a second separate section of pages entitled "Marked Version Showing Changes Made to the SPECIFICATION", which indicate each of the individual changes made to each of the individual amended PARAGRAPHS, as required by 37 CFR §1.121(b)(iii).

#### IN THE CLAIMS

Claims 1 – 6 are pending in the present application.

As required by 37 CFR §1.121(c)(i), Applicants respectfully request that a NEW claim 7 be added. The requested amendments, which include all additions, deletions, and modifications to the claims, are shown in the accompanying pages, included herewith as an attachment to this response, entitled "Marked Version Showing Changes Made to the CLAIMS," as required by 37 CFR §1.121(c)(ii). A clean, unmarked version of the amended claims, entitled "Clean Version of the Amended CLAIMS," as required by 37 CFR §1.121(c)(i), is likewise included and attached herewith as an attachment to this response.

#### REMARKS

Applicants have amended their claims in order to better describe and claim their invention.

#### IN THE SPECIFICATION:

At page 1, line 18 the word "semiconductor" is changed to -- electronic -- in order to avoid the implication that only semiconductor detectors can create a charge pulse in the presence of radiation. The change is also made to harmonize the intent of the present paragraph with the prior paragraph, which addresses "...electronic detector systems ..." in line 12.

At page 4, line 7 the word "turbostatic" has been misspelled and is changed to -- turbostratic --, a well known term of art used to describe layered polycrystalline structures (see, for instance, *Academic Press Dictionary of Science and Technology* Harcourt Brace Jovanovich, Publishers, © 1992).

At page 6, line 8, the first use of the article "the" is deleted to correct the syntax of the sentence.

#### IN THE CLAIMS

In Claim 3:

The word -- hexagonal -- is included to provide proper antecedent description for the term "boron nitride."

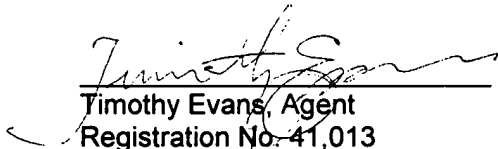
In New Claim 7:

New claim 7 is added to recite material structures that are useful for providing neutron detectors according to the present invention. Support is found at page 4, lines 5, 6, and 7.

Applicants assert that no new matter has been added as the result of these amendments.

Respectfully submitted,

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Attachments:

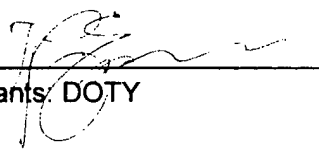
FORM PTO 1449 / Transmittal Letter  
Copies of reference citations listed in FORM PTO 1449  
Clean Version of Amended SPECIFICATION  
Marked Version Showing Changes Made to the Amended SPECIFICATION  
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Person making Deposit TP Evans  
Serial Number: 09/967,143

Signature   
For Applicants, DOTY